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NOVALUX
STREET LIGHTING UNITS
(Pendent and Bracket Types)
FOR
MAZDA SERIES LAMPS



GENERAL ELECTRIC COMPANY
SCHENECTADY NEW YORK

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GENERAL ELECTRIC COMPANY
SCHENECTADY NEW YORK

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SERIES INCANDESCENT FIXTURES

NEW SIZES OF MAZDA LAMPS FOR STREET LIGHTING

Among the most recent developments in the science of series street lighting is the development of the new high candle-power sizes of series lamps. These lamps have efficiencies which were never before thought possible and make high candle-power incandescent lamp units practical.

The filament is a closely wound coil of drawn Tungsten wire of great strength, but instead of operating in a vacuum it operates in an atmosphere of gas. This enables the filament to be run at very high temperatures without decreasing the life.

Furthermore, the extreme concentration of the filament produces high intrinsic brilliancy and consequent glare unless globes of diffusing glass are used to conceal the light source and improve the distribution. Even on the smaller sizes where a globe is not required for protection some such device is recommended for diffusing the light and removing the filament from the line of vision.

These changes in the shape and size of the bulb, the desirability for proper ventilation and protection have made advisable the design of an entire new line of fixtures for lamps of 400 c-p. or over and new fittings to better adapt the lower candle-power lamps to our present line of street system fixtures.

These fixtures embody characteristics for the successful operation of Mazda lamps, and are made in three different styles; the pendent units for the high candle-power lamps, the ornamental units for high candle-power lamps, and the bracket type for the low candle-power lamps.

10940-B5231 TCE

DATA ON MAZDA C STREET SERIES LAMPS

Amps.	Nomi- nal C-P.	Lu- mens	Average Volts	Type of Bulb	* Base Regularly Supplied	Std. Pkg. Qty.	LENGTH IN IN.	
							To Light Center	Overall
6.6	60	600	7.4	S-24½	Mog. screw	50	5¾	7¼
	80	800	9.2	S-24½	Mog. screw	50	5¾	7¼
	100	1000	10.9	S-24½	Mog. screw	50	5¾	7¼
	250	2500	23.5	PS-35	Mog. screw	24	7	9¾
	400	4000	37.6	PS-35	Mog. screw	24	7	9¾
	600	6000	56.4	PS-40	Mog. screw	12	7	10
15	400	4000	14.9	PS-40	Mog. screw	12	9½	12½
20	600	6000	16.0	PS-40	Mog. screw	12	9½	12½
	1000	10000	25.9	PS-40	Mog. screw	12	9½	12½

* Medium Screw Skirted Base (Style 100) can also be supplied except the 400, 600 and 1000 c-p. lamps, which are supplied only with Mogul Screw Skirted, or Unskirted Base (Style 400) as indicated.

These lamps are not recommended frosted. If frosted lamps are required, bowl frosted lamps are to be preferred.

Orders for lamps of 250 c-p. and higher should specifically state if they are to be burned in other than a pendent position.

STREET LIGHTING

The lighting of our streets at night is a vital municipal issue. We are beginning to realize that good street lighting means a better, cleaner city, enhanced property values and civic progress. It is good business to have well-lighted streets—good business for the merchants and property owners—good business for the city as a whole.

The basic reason for street lighting is protection. Crime shuns well-lighted streets. Adequate illumination is a protective necessity to every community. City streets are safe only to the extent to which they are lighted. It is true that light alone may be insufficient protection but it is equally true that police alone, in reasonable numbers, cannot afford complete protection.

But street lighting means more than protection from crime. The march of industrial progress has brought changes in our methods of living. The streets at night are not for the lonely traveler but are arteries of trade and pathways of recreation. Many of our streets are more popular at night than in the daytime. High speed traffic is a new problem which complicates the situation and, yet, we must be able to go about at night with perfect ease. Within useful range of vision, we should be able to see fully as well at night as in the daytime. Whether we are walking or riding, a well-lighted street carries an assurance of safety. Brightly lighted street intersections prevent collisions and accidents. Good lighting, then, is a municipal convenience. It is the foundation upon which depends all our nocturnal activities.

Light and cleanliness go hand in hand. The power of suggestion influences action. One improvement suggests another. Asphalt pavements have produced cleaner streets, not merely because they are easier to clean than cobblestones, but because of their neater appearance. The same reasoning applies to the lighting of a street. Well-lighted streets are kept cleaner, are less abused and, in fact, react upon the surrounding property and the residents themselves. Good lighting may well be termed a sanitary measure.

In planning the lighting of a city, it is at once apparent that some sections must have special treatment. Parkways, boulevards, realty extensions and business districts require additional intensities or more artistic treatment. Since the cost of properly lighting such areas is in excess of other districts, many municipalities have designated such cases "Special Lighting Districts" and have adopted various methods of assessment to defray the installation and maintenance expense.

The downtown district is the most important. Here is centered the commercial life of the community. The streets are busier, the traffic more congested and the buildings more impressive. The illumination should be of the very finest type,

STREET LIGHTING (Cont'd)

flooding the streets and building fronts with white light. The units themselves should be artistic and properly designed to harmonize with the thoroughfare. The expense of such a system of street lighting is justly chargeable to those most benefited: the tenants first, the property owners second and, finally, the taxpayers of the entire city.

The tenant (the business man) is and should be the warmest advocate of intensive lighting. Trade follows the light. Brighter streets are busier streets. "White Way" lighting is the most profitable business-getting investment for a merchant or a city. Actual statistics are available to show the exact increase in business due entirely to the improvement in the lighting.

The property owner in the business district is also benefited. Generally speaking, the value of property on a business street is directly proportionate to the number of people who make use of the street as a thoroughfare. It frequently happens that opposite sides of a street in the same block have considerably different values due to this cause. Anything which adds to the traffic of a street must, therefore, add to the value of the abutting property.

In a general way, the proper illumination of the business district does for the entire city what the lighting of any particular street does for that section; it increases values by increasing the traffic from nearby cities and the surrounding country.

The taxpayers of a town are the stockholders of that town. As such, they are vitally interested in its property. Unless the town pays them dividends in the shape of rising real estate values and increased trade, they are losing money on their investment. Insignificant street lights pay insignificant dividends. All other things being equal, the town with the "White Way" pays the larger dividends. It receives more favorable publicity and attracts more desirable residents. It is an indication of a prosperous condition and a progressive spirit. A well-dressed city, like a well-dressed man, commands attention and respect.

NOVALUX PENDENT UNITS

EFFICIENCY

The Mazda series lamps of 400, 600 and 1000 c-p. are much more efficient when operated at 15 and 20 amperes than at any lower current value. Since most series alternating constant current circuits are either 6.6 or 7.5 amperes, it is necessary to have an individual auto-transformer for each lamp to be connected directly to the low current series circuit to supply 15 amperes for the 400 c-p. lamp and 20 amperes

EFFICIENCY (Cont'd)

for the 600 and 1000 c-p. lamps. Such a device is mounted directly under the hood of the Novalux unit and operates at an efficiency of 94 to 95 per cent with a power-factor of 99 per cent.

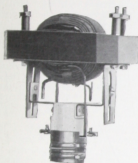


Fig. 1

SHELL TYPE AUTO-TRANSFORMER
WITH SOCKET SUPPORT FOR 300
WATT, TYPE C, MAZDA LAMP
FOR NOVALUX UNIT

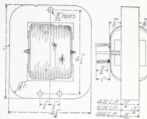


Fig. 2

OUTLINE DRAWING FOR AUTO-TRANS-
FORMER IN NOVALUX FIXTURE

The auto-transformer for the 600 c-p. lamp is equipped with a tap for a 400 c-p. lamp. The auto-transformer for the 1000 c-p. lamp has a tap for a 600 c-p. lamp. This feature establishes the flexibility of the auto-transformer type of unit and provides for the demand for more light which must come with the future.

The standard auto-transformers are designed for operation at 6.6 and 7.5 amperes. At a slightly additional expense we can wind auto-transformers to operate at any primary current from 3 to 10 amperes. The 400 c-p. lamp operates at 15 amperes but the 600 and 1000 c-p. lamps operate at 20 amperes. For special frequencies, 25, 40, 125 or 133 cycles, special auto-transformers should be provided.

LIGHT DISTRIBUTION

There is no single type of light distribution which can be applied as a standard to meet every requirement of good street lighting. A city is generally divided into several distinct sections and each should be treated differently. The business section, the main thoroughfares, the residential section, the suburbs and outlying districts and the parkways and

LIGHT DISTRIBUTION (Cont'd)

boulevards, each present a separate problem. It is possible to lay down very general rules for properly lighting these sections but even then the physical conditions change for each city and these rules cannot be too specific.

It is true that the lack of funds is perhaps the most serious obstacle in the path of improvements in street lighting but it is equally true that with the present increased efficiencies of illuminants and a proper selection from the new scientifically designed reflecting and refracting accessories, it is possible in nearly every case to realize more than double the present street lighting effect without any increase in operating cost.

The selection of the proper diffusing, reflecting and refracting devices is of the utmost importance in its effect upon the light distribution. In the first place, the intense brilliancy of the Mazda filament produces glare unless obscured by a diffusing medium. The nature of this medium depends upon the type of distribution required.

For business sections, where it is fully as important to light the buildings as well as the streets, the units are usually spaced closely and the light intensities are comparatively greater. In such cases, the diffusing globe alone should be used. An external reflector is undesirable because the upward light is required for properly illuminating the building fronts and on account of the closer spacing, it is not necessary to project the downward light to very great distances.

For main thoroughfares and residential sections, upward light is not desirable, intensities are lower and the units are spaced farther apart. For such installations, a reflector is a distinct advantage when used in connection with a diffusing globe. In most cases, however, the spacing is so great that a reflector will not suffice. Not only is there considerable absorption in both the diffusing globe and reflector but too large a percentage of the light is reflected in the area immediately under the lamp and not enough is projected to the areas midway between lamps. It would be possible to make a reflector which would give this distribution but it is absolutely impracticable because such a reflector would have to be 10 or 12 feet in diameter. Here the principal of refraction offers a perfect solution and street illumination has been revolutionized by the Holophane prismatic refractors now available in three types: bowl, band and dome.

HOLOPHANE PRISMATIC REFRACTORS

These prismatic refractors are made of transparent glass with prismatic refracting surfaces designed on the lens principle. They consist of two clear glass bowls or bands, one of which fits snugly inside of the other. The joints are sealed to make an air-tight union. In the bowl and band types, the inner part is girdled on its outer surface by horizontal prisms which refract the light from the source at an angle of 10 degrees below the

HOLOPHANE PRISMATIC REFRACTORS (Cont'd)

horizontal. The outer part has vertical diffusing prisms on its inner surface for the purpose of spreading the light rays transversely and making the refractor luminous over its entire surface. The base of the inside section of the bowl refractor has no opening and therefore no dust or bugs can enter the fixture from this source. In the dome type, the outer section also has refracting prisms so that the light rays are bent through large angles. The two prismatic surfaces come close together when the parts are sealed and the inner and outer surfaces of the complete refractor are entirely smooth.

These refractors more than double the initial candle-power of the Mazda lamp at an angle of 10 degrees below the horizontal and even with extreme spacing, the height of the lamp can be so adjusted that the maximum amount of light will be projected to the point midway between the lamps.

THE BOWL REFRACTOR

This type is exactly the same as the original Holophane prismatic bowl refractor in dimensions and external appearance.

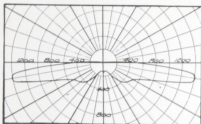


Fig. 3

600 C-P. MAZDA LAMP IN BOWL REFRACTOR

The difference is simply in the method of light distribution. Instead of redirecting the downward light and creating a comparatively dark spot in the immediate vicinity of the unit, we have eliminated the refracting prisms at the lower part of the inside shell and substituted a etched finish. The outside shell consists of diffusing prisms. The maximum light is still projected to the point midway between lamps but there is now sufficient light under and near the unit to provide safe and satisfactory illumination for street intersections.

THE BAND REFRACTOR

The construction of this type of refractor is similar to the bowl except that it is a cylindrical refracting ring or band. Both shells are cut off just below the middle of the bowl.

The distribution of light is very much the same as for the new bowl type except that there is no diffusion of downward light and therefore no losses by absorption.

THE BAND REFRACTOR (Cont'd)

When lighted, the new band refractor presents a highly pleasing appearance and combines a widely spread light distribution with excellent illumination beneath the lamp.

Perfect ventilation of the lamp is assured because the lower part of the refractor is entirely open. For the same reason an

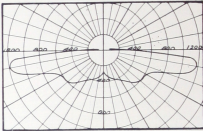


Fig. 4

600 C-P. MAZDA LAMP IN BAND REFRACTOR

accumulation of bugs and dirt is impossible. This insures uninterrupted freedom of downward lighting.

Cleaning may be readily accomplished because the refractor is hinged and may be lowered without difficulty. Because of liberal hand room, the lamp and socket may be removed as a unit

THE DOME REFRACTOR

This refractor differs from the bowl and band types both in appearance and construction. It is designed with a small neck and a large bottom opening. Both inner and outer shells have refracting prisms. The particular advantage of this type is

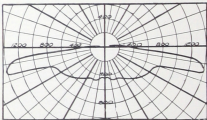


Fig. 5

600 C-P. MAZDA LAMP IN DOME REFRACTOR

that it intercepts all the upward light from the lamp. The light which formerly was lost in the bottom of the fixture or ineffi-

THE DOME REFRACTOR (Cont'd)

ciently reflected is now caught by the refracting prisms and projected unto useful planes.

Since there are no diffusing prisms on this refractor it is distinctly advisable always to use the dome refractor with stippled glass outer globe. This globe is of crystal glass, pressed in one piece, with a stippled finish on the inside surface. There are no sharp edges or deep crevices but the unevenness of the surface is sufficient to modify the brilliancy of the light. The natural direction of the rays is not altered and the absorption of the glass is only 1 per cent higher than for a corresponding clear globe.

Finally, these refractors help to meet all illuminating engineering conditions and permit a relatively wide spacing between lamps with sufficient spot lighting to meet the requirements of the two types of reflecting road surfaces; that is, specular reflection from asphalt and oil-treated streets and diffuse reflection from dirt or macadam roads. The importance of meeting the requirements of modern road surfaces as outlined above has become recognized more and more by illuminating engineers since it means the attainment of proper silhouette which is now foremost in securing a proper degree of visual acuity.

SUMMARY

Novalux units are made for pendent and for ornamental lighting. They are so designed that the auto-transformer may be mounted inside the casing and the highest degree of efficiency attained. They can be adapted for every condition of street lighting: each unit can be equipped with a diffusing globe; with diffusing globe and reflector; with reflector and Holophane prismatic refractor, either bowl or band type; or, with the dome refractor and stippled glass globe.

The Illuminating Engineering Laboratory at Schenectady has tested each type of unit and has located the filament of the Mazda lamp in exactly correct relation to the diffusing globe reflector or refractor.

The Engineering Departments of the Edison and National Lamp Divisions have inspected carefully and approved all units from the standpoint of ventilation.

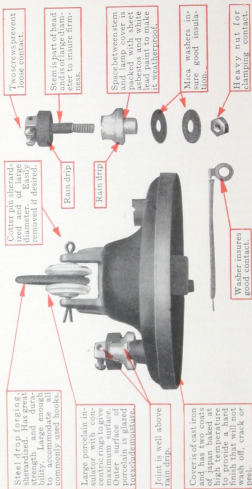


Fig. 6
SUSPENSION TOP WITH BINDING POST, FORM 6 NOVALUX UNIT

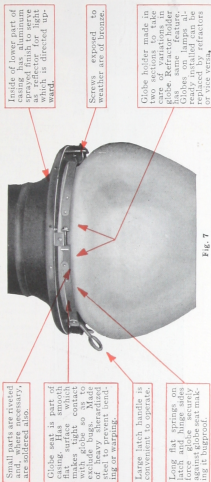


Fig. 7

GLOBE HOLDER FOR FORM 6 NOVALUX UNIT.
LOWER PART OF CASING CUT AWAY TO SHOW SPRINGS

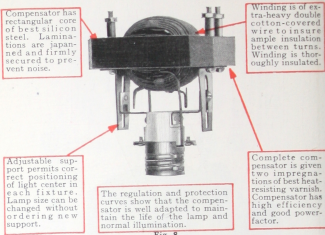


Fig. 8

ASSEMBLY OF COMPENSATOR, ADJUSTABLE SUPPORT AND SOCKET FOR NOVALUX UNIT

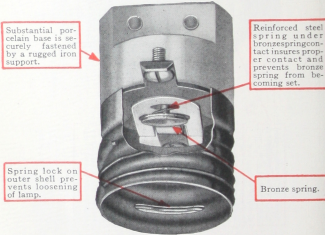


Fig. 9

SOCKET FOR NOVALUX UNIT WITH PART OF SHELL CUT AWAY TO SHOW SPRING CONTACT

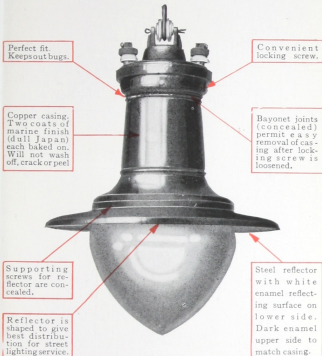
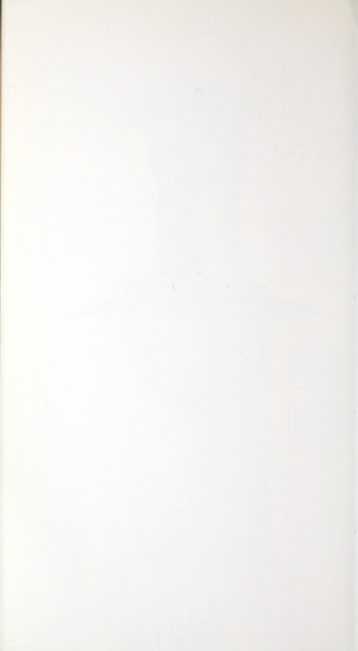


Fig. 10

FORM 6 NOVALUX UNIT WITH
20 IN. REFLECTOR AND
NO. 87 GLOBE



FORM 6

NOVALUX PENDENT UNITS

FORM 6 NOVALUX UNITS

The Form 6 units embody the very latest ideas in design both of an artistic and mechanical nature.

They are made for use with the 5.5, 6.6 or 7.5 amp. straight series Mazda lamps and for use with the 400 c-p., 15 amp. 600 and 1000 c-p., 20 amp. Mazda series lamps. The units for operating the high candle-power lamps are equipped with self-contained auto-transformers so that they can be operated on standard constant current circuits of either 6.6 or 7.5 ampere.

The 600 c-p., 20 amp. unit has a tap for a 400 c-p., 15 amp. lamp. The 1000 c-p., 20 amp. unit has a tap for a 600 c-p., 20 amp. lamp. In selecting a unit, provide for future improvements by being able to operate the next larger size of lamp.

CHARACTERISTICS

The high operating temperature of these lamps has been compensated for by ventilating the earlier fixture designs. However, if the exposed surfaces of the fixture and glassware provide sufficient area, ample cooling can be provided in an air-tight unit by radiation and conduction. Such a unit is dustproof, bugproof and moistureproof.

CONSTRUCTION

The Form 6 Novalux unit is air-tight. The internal temperatures are so low that the life of the lamps is in no way lessened. The advantages are obvious; when an enclosing globe is used, no dust can collect in the lamp bulb or on the inner surface of the globe. The loss of light due to the accumulation of dirt on these surfaces runs as high as 40 per cent even where the units are cleaned once a month. The elimination of dust and dirt is a great stride toward higher efficiencies and better service. Such a fixture is absolutely watertight and bugproof.

POSSIBLE GLASSWARE COMBINATIONS

The following four combinations of light distributing equipment can be used with both the pendent or the bracket types:

1. No. 87 Light Carrara Outer Globe.
2. No. 87 Light Carrara Outer Globe and 20 In. Reflector
3. Prismatic Closed Base Bowl Refractor and 20 In. Reflector.
4. Prismatic Band Refractor and 20 In. Reflector.
5. Prismatic Dome Reflector and Rippled Globe.

The handsome appearance of the Form 6 unit is worthy of more than passing notice. Substantial, simple, but with harmonious lines, these fixtures will improve the appearance of any street where they are installed.

FORM 6 NOVALUX PENDENT UNITS

Cat.No. (Unit Com- plete)	Fig.	Lamp Rating	Equipped with	Apprx. Ship. Wt. in Lb.
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STRAIGHT SERIES TYPE

350, 400 and 600 C-p.

170520	16	5.5, 6.6 or 7.5 amp.	No. 87 light carrara globe.	55
170521	18		No. 87 light carrara globe and Cat. No. 170556 reflector.	60
170522	20		Cat. No. 1340382 closed base bowl refractor and Cat. No. 170556 reflector.	55
202208	22		Cat. No. 174274 band refractor and Cat. No. 170556 reflector. . .	55
202209	24		No. 105 clear rippled globe and Cat. No. 1340228 dome refractor	65

STRAIGHT MULTIPLE TYPE

202201	16	300, 400 and 500 watt	No. 87 light carrara globe.	55
202202	18		No. 87 light carrara globe and Cat. No. 170556 reflector.	60
202203	20		Cat. No. 1340382 closed base bowl refractor and Cat. No. 170556 reflector.	55
202204	22		Cat. No. 174274 band refractor and Cat. No. 170556 reflector. . .	55
202205	24		No. 105 clear rippled globe and Cat. No. 1340228 dome refractor	65
202206	16	750 and 1000 watt	No. 87 light carrara globe.	55
202207	18		No. 87 light carrara globe and Cat. No. 170556 reflector.	60

† IL SERIES TRANSFORMER TYPE

400, 600 and 1000 C-p.

202210	16	15 and 20 amp.	No. 87 light carrara globe.	55
202211	18		No. 87 light carrara globe and Cat. No. 170556 reflector.	60
202212	20		Cat. No. 1340382 closed base bowl refractor and Cat. No. 170556 reflector.	55
202213	22		Cat. No. 174274 band refractor and Cat. No. 170556 reflector. . .	55
202214	24		No. 105 clear rippled globe and Cat. No. 1340228 dome refractor	65

* Catalog numbers do not include Mazda lamps.

† For use with, but not including a Type IL series transformer, aerial type, which may be mounted on the cross of the nearest pole.

FORM 6 NOVALUX PENDENT UNITS **For 400 C-P. Mazda Series Lamps**

*Cat. No. (Unit Com- plete)	Fig.	Lamp Rating in Amp.	Equipped with	Apprx. Ship. Wt. in Lb.
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PENDENT TYPE

(Complete with Auto-Transformer for 6.6 Amp., 60-Cycle Series Circuit)

170532	16	15	No. 87 light carrara globe.....	65
170533	18	15	No. 87 light carrara globe and Cat. No. 170556 reflector.....	70
170534	20	15	Cat. No. 1340382 closed base bowl refractor and Cat. No. 170556 reflector.....	65
202215	22	15	Cat. No. 174274 band refractor and Cat. No. 170556 reflector.....	65
202216	24	15	No. 105 clear rippled globe and Cat. No. 1340228 dome refractor	75

† PENDENT TYPE

(Complete with Auto-Transformer for 7.5 Amp., 60-Cycle Series Circuit)

170559	16	15	No. 87 light carrara globe.....	65
170560	18	15	No. 87 light carrara globe and Cat. No. 170556 reflector.....	70
170561	20	15	Cat. No. 1340382 closed base bowl refractor and Cat. No. 170556 reflector.....	65
202217	22	15	Cat. No. 174274 band refractor and Cat. No. 170556 reflector...	65
202218	24	15	No. 105 clear rippled globe and Cat. No. 1340228 dome refractor	75

* Catalog numbers do not include Mazda lamps.

† Special auto-transformers can be furnished for any alternating current series circuit from 3 to 10 amperes, 25 to 133 cycles at an increased price.

FORM 6 NOVALUX PENDENT UNITS

For 600 C-p. Mazda Series Lamps

Cat. No. (Unit Com- plete)	Fig.	Lamp Rating in Amp.	Equipped with	Apprx. Ship. Wt. in Lb.
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PENDENT TYPE (WITH TAP FOR 400 C-p.)

(Complete with Auto-Transformer for 6.6 Amp., 60-Cycle Series Circuit)

170544	16	20	No. 87 light carrara globe.	65
170545	18	20	No. 87 light carrara globe and Cat. No. 170556 reflector.	70
170546	20	20	Cat. No. 1340382 closed base bowl refractor and Cat. No. 170556 reflector.	65
202219	22	20	Cat. No. 174274 band refractor and Cat. No. 170556 reflector. . .	65
202220	24	20	No. 105 clear rippled globe and Cat. No. 1340228 dome refractor	75

† PENDENT TYPE (WITH TAP FOR 400 C-p.)

(Complete with Auto-Transformer for 7.5 Amp., 60-Cycle Series Circuit)

171862	16	20	No. 87 light carrara globe.	65
171863	18	20	No. 87 light carrara globe and Cat. No. 170556 reflector.	70
171864	20	20	Cat. No. 1340382 closed base bowl refractor and Cat. No. 170556 reflector.	65
202221	22	20	Cat. No. 174274 band refractor and Cat. No. 170556 reflector. . .	65
202222	24	20	No. 105 clear rippled globe and Cat. No. 1340228 dome refractor	75

* Catalog numbers do not include Mazda lamps.

† Special auto-transformers can be furnished for any alternating current series circuit from 3 to 10 amperes, 25 to 133 cycles at an increased price.

FORM 6 NOVALUX PENDENT UNITS **For 1000 C-p. Mazda Series Lamps**

*Cat. No. (Unit Com- plete)	Fig.	Lamp Rating in Amp.	Equipped with	Apprx. Ship. Wt. in Lb.
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PENDENT TYPE (WITH TAP FOR 600 C-p.)

(Complete with Auto-Transformer for 6.6 Amp., 60-Cycle Series Circuit)

170550	16	20	No. 87 light carrara globe.....	65
170551	18	20	No. 87 light carrara globe and Cat. No. 170556 reflector.....	70
170552	20	20	Cat. No. 1340382 closed base bowl refractor and Cat. No. 170556 reflector.....	65
202223	22	20	Cat. No. 174274 band refractor and Cat. No. 170556 reflector...	65
202224	24	20	No. 105 clear rippled globe and Cat. No. 1340228 dome refractor	75

† PENDENT TYPE (WITH TAP FOR 600 C-p.)

(Complete with Auto-Transformer for 7.5 Amp., 60-Cycle Series Circuit)

171868	16	20	No. 87 light carrara globe.....	65
171869	18	20	No. 87 light carrara globe and Cat. No. 170556 reflector.....	70
171870	20	20	Cat. No. 1340382 closed base bowl refractor and Cat. No. 170556 reflector.....	65
202225	22	20	Cat. No. 174274 band refractor and Cat. No. 170556 reflector.....	65
202226	24	20	No. 105 clear rippled globe and Cat. No. 1340228 dome refractor	75

* Catalog numbers do not include Mazda lamps.

† Special auto-transformers can be furnished for any alternating current series circuit from 3 to 10 amperes, 25 to 133 cycles at an increased price.

FORM 6 NOVALUX BRACKET UNITS **Bracket Units**

*Cat. No. (Unit Com- plete)	Fig.	Lamp Rating	Equipped with	Apprx. Ship. Wt. in Lb.
--------------------------------------	------	----------------	---------------	----------------------------------

STRAIGHT SERIES BRACKET TYPE

350, 400 and 500 C-p.

170523	26	5.5, 6.6 or 7.5 amp.	No. 87 light carrara globe.....	85
170524	27		No. 87 light carrara globe and Cat. No. 170556 reflector.....	90
170525	28		Cat. No. 1340382 closed base bowl refractor and Cat. No. 170556 reflector.....	85
202232	29		Cat. No. 174274 band refractor and Cat. No. 170556 reflector...	85
202233	30		No. 105 rippled globe and Cat. No. 1340228 dome refractor.....	95

STRAIGHT MULTIPLE BRACKET TYPE

204982	26	300, 400 and 500 watt	No. 87 light carrara globe.....	75
204983	27		No. 87 light carrara globe and Cat. No. 170556 reflector.....	80
204984	28		Cat. No. 1340382 closed base bowl refractor and Cat. No. 170556 reflector.....	75
202227	29		Cat. No. 174274 band refractor and Cat. No. 170556 reflector...	75
202228	30		No. 105 rippled globe and Cat. No. 1340228 dome refractor.....	85
202229	26	750 and 1000 watt	No. 87 light carrara globe.....	55
202230	27		No. 87 light carrara globe and Cat. No. 170556 reflector.....	60

*Catalog numbers do not include Mazda lamps.

Catalog numbers include high-voltage insulator, and cast iron hood for attaching to 1½-in. pipe. Special hoods can be supplied for 1-, 1½- or 2-in. pipe.

FORM 6 NOVALUX BRACKET UNITS

Bracket Units

*Cat. No. (Unit Com- plete)	Fig.	Lamp Rating	Equipped with	Appra. Ship. Wt. in Lb.
† IL SERIES TRANSFORMER BRACKET TYPE 400, 600 and 1000 C-p.				
202234	26	15 and 20 amp.	No. 87 light carrara globe.....	85
202235	27		No. 87 light carrara globe and Cat. No. 170556 reflector.....	90
202236	28		Cat. No. 1340382 closed base bowl refractor and Cat. No. 170556 reflector.....	85
202237	29		Cat. No. 174274 band refractor and Cat. No. 170556 reflector...	85
202238	30		No. 105 rippled globe and Cat. No. 1340228 dome refractor.....	95

* Catalog numbers do not include Mazda lamps.

Catalog numbers include high-voltage insulator and cast iron hood for attaching to 1½-in. pipe. Special hoods can be supplied for 1-, 1½- or 2-in. pipe.

† For use with, but not including a Type IL series transformer, aerial type which may be mounted on the cross arm of the nearest pole.

FORM 6 NOVALUX BRACKET UNITS

For 400 C-p. Mazda Series Lamps

*Cat.No. (Unit Com- plete)	Fig.	Lamp Rating in Amp.	Equipped with	Appra. Ship. Wt. in Lb.
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BRACKET TYPE

(Complete with Auto-Transformer for 6.6 Amp., 60 Cycle Series Circuit)

170535	26	15	No. 87 light carrara globe.....	85
170536	27	15	No. 87 light carrara globe and Cat. No. 170556 reflector.....	90
170537	28	15	Cat. No. 1340382 closed base bowl refractor and Cat. No. 170556 reflector.....	85
202239	29	15	Cat. No. 174274 band refractor and Cat. No. 170556 reflector, ..	85
202240	30	15	No. 105 rippled globe and Cat. No. 1340228 dome refractor.....	95

† BRACKET TYPE

(Complete with Auto-Transformer for 7.5 Amp., 60 Cycle Series Circuit)

170562	26	15	No. 87 light carrara globe.....	85
170563	27	15	No. 87 light carrara globe and Cat. No. 170556 reflector.....	90
170564	28	15	Cat. No. 1340382 closed base bowl refractor and Cat. No. 170556 reflector.....	85
202241	29	15	Cat. No. 174274 band refractor and Cat. No. 170556 reflector.....	85
202242	30	15	No. 105 rippled globe and Cat. No. 1340228 dome refractor.....	95

* Catalog numbers do not include Mazda lamps.

Catalog numbers include high-voltage insulator and cast iron hood for attaching to 1¼-in. pipe. Special hoods can be supplied for 1-, 1¼- or 2-in. pipe.

† Special auto-transformers can be furnished for any alternating current series circuit from 3 to 10 amperes, 25 to 133 cycles.

FORM 6 NOVALUX BRACKET UNITS**For 600 C-p. Mazda Series Lamps**

*Cat. No. (Unit Com- plete)	Fig.	Lamp Rating in Amp.	Equipped with	Appra. Ship. Wt. in Lb.
--------------------------------------	------	---------------------------	---------------	----------------------------------

BRACKET TYPE (WITH TAP FOR 400 C-p.)**(Complete with Auto-Transformer for 5.6 Amp., 60 Cycle Series Circuit)**

170547	26	20	No. 87 light carrara globe	85
170548	27	20	No. 87 light carrara globe and Cat. No. 170556 reflector	90
170549	28	20	Cat. No. 1340382 closed base bowl refractor and Cat. No. 170556 reflector	85
202243	29	20	Cat. No. 174274 band refractor and Cat. No. 170556 reflector . . .	85
202244	30	20	No. 105 rippled globe and Cat. No. 1340228 dome refractor	95

† BRACKET TYPE (WITH TAP FOR 400 C-p.)**(Complete with Auto-Transformer for 7.5 Amp., 60 Cycle Series Circuit)**

171865	26	20	No. 87 light carrara globe	85
171866	27	20	No. 87 light carrara globe and Cat. No. 170556 reflector	90
171867	28	20	Cat. No. 1340382 closed base bowl refractor and Cat. No. 170556 reflector	85
202245	29	20	Cat. No. 174274 band refractor and Cat. No. 170556 reflector . . .	85
202246	30	20	No. 105 rippled globe and Cat. No. 1340228 dome refractor	95

* Catalog numbers do not include Mazda lamps.

Catalog numbers include high-voltage insulator, and cast iron hood for attaching to 1¼-in. pipe. Special hoods can be supplied for 1-, 1¼- or 2-in. pipe.

† Special auto-transformers can be furnished for any alternating current series circuit from 3 to 10 amperes, 25 to 133 cycles.

FORM 6 NOVALUX BRACKET UNITS

For 1000 C-p. Mazda Series Lamps

*Cat. No. (Unit Complete)	Fig.	Lamp Rating in Amp.	Equipped with	Apprx. Ship. Wt. in Lb.
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BRACKET TYPE (WITH TAP FOR 600 C-p.)

(Complete with Auto-Transformer for 6.6 Amp., 60 Cycle Series Circuit)

170553	26	20	No. 87 light carrara globe.....	85
170554	27	20	No. 87 light carrara globe and Cat. No. 170556 reflector.....	90
170555	28	20	Cat. No. 1340381 closed base bowl refractor and Cat. No. 170556 reflector.....	85
202247	29	20	Cat. No. 174274 band refractor and Cat. No. 170556 reflector...	85
202248	30	20	No. 105 rippled globe and Cat. No. 1340228 dome refractor	95

† BRACKET TYPE (WITH TAP FOR 600 C-p.)

(Complete with Auto-Transformer for 7.5 Amp., 60 Cycle Series Circuit)

171871	26	20	No. 87 light carrara globe.....	85
171872	27	20	No. 87 light carrara globe and Cat. No. 170556 reflector.....	90
171873	28	20	Cat. No. 1340382 closed base bowl refractor and Cat. No. 170556 reflector.....	85
202249	29	20	Cat. No. 174274 band refractor and Cat. No. 170556 reflector.....	85
202250	30	20	No. 105 rippled globe and Cat. No. 1340228 dome refractor.....	95

* Catalog numbers do not include Mazda lamps.

Catalog numbers include high-voltage insulator, and cast iron hood for attaching to 1½-in. pipe. Special hoods can be supplied for 1-, 1½- or 2-in. pipe.

† Special auto-transformers can be furnished for any alternating current series circuit from 3 to 10 amperes, 25 to 133 cycles.

FORM 6 NOVALUX UNITS Accessories



Fig. 11

Cat. No. 170556 Reflector

Dia. 20 In.; Depth. 1 $\frac{3}{4}$ In.; Collar

Dia. 11 $\frac{1}{4}$ In.; Collar Opening, 11 $\frac{3}{4}$ In.



Fig. 12

Cat. No. 222825 Closed Base Bow
Refractor and Holder

Consists of:

Cat. No. 1340382 Holophane
Closed Base Bowl Refractor
(Dia., 8 $\frac{1}{4}$ In.; Length, 7 $\frac{1}{8}$ In.)

Cat. No. 205503 Holder



Fig. 13

Cat. No. 205504 Band Refractor
and Holder

Consists of:

Cat. No. 174274 Holophane Band
Refractor
(Dia., 8 $\frac{1}{4}$ In.; Length, 3 $\frac{3}{4}$ In.)

Cat. No. 205503 Holder



Fig. 14

*No. 87 Globe

Dia., 12 $\frac{1}{4}$ In., Length, 11 $\frac{1}{4}$ In.

* In ordering globes separate from complete units, specify whether clear or light Carrara globes are desired.



Fig. 15

Cat. No. 1340228 Dome
Refractor

SERIES RECTANGULAR AUTO-TRANSFORMERS For Novalux Units

Cat. No.	Primary Amp.	Secondary Amp.	C.P. of Lamp	List Price ★
169559	6.6	15	400	\$10.00
169562	7.5	15	400	10.00
*169560	6.6	20	600	12.75
*169563	7.5	20	600	12.75
†169561	6.6	20	1000	17.00
†169564	7.5	20	1000	17.00

*Has tap for 400 c-p. lamp.

†Has tap for 600 c-p. lamp.

FORM 6 NOVALUX PENDENT UNITS
For 250, 400, 600 and 1000 C-p. MAZDA Series Lamp



Fig. 16

PENDENT UNIT EQUIPPED WITH NO. 87 LIGHT CARRARA GLOBE



Fig. 17

CHARACTERISTIC DISTRIBUTION CURVE WITH 600 C-P MAZDA LAMP
For data see Pages 19 to 22.

FORM 6 NOVALUX PENDENT UNITS (Cont'd)
For 250, 400, 600 and 1000 C-p. Mazda Series Lamps



Fig. 18
PENDENT UNIT EQUIPPED WITH NO. 87 LIGHT CARRARA GLOBE AND REFLECTOR CAT. NO. 170556



Fig. 19
CHARACTERISTIC DISTRIBUTION CURVE WITH 600 C-P. MAZDA LAMP
For data see Pages 19 to 22.

FORM 6 NOVALUX PENDENT UNITS (Cont'd)
For 250, 400, 600 and 1000 C-p. Mazda Series Lamps



Fig. 20

PENDENT UNIT EQUIPPED WITH REFLECTOR CAT. NO. 170556,
AND PRISMATIC CLOSED BASE BOWL REFRACTOR CAT. NO. 1340382

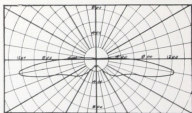


Fig. 21

CHARACTERISTIC DISTRIBUTION CURVE WITH 600 C-P. MAZDA LAMP
For data see Pages 19 to 22.

FORM 6 NOVALUX PENDENT UNITS (Cont'd)
For 250, 400, 600 and 1000 C-p. Mazda Series Lamps



Fig. 22

PENDENT UNIT EQUIPPED WITH REFLECTOR CAT. NO. 170556,
AND PRISMATIC BAND REFRACTOR CAT. NO. 174274

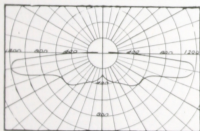


Fig. 23

CHARACTERISTIC DISTRIBUTION CURVE WITH 600 C-P. MAZDA LAMP
For data see Pages 19 to 22.

FORM 6 NOVALUX PENDENT UNITS (Cont'd)
For 250, 400, 600 and 1000 C-p. Mazda Series Lamps



Fig. 24

PENDENT UNIT EQUIPPED WITH NO. 105 CLEAR RIPPLED GLOBE AND PRISMATIC DOME REFRACTOR CAT. NO. 1340228

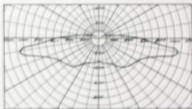


Fig. 25

CHARACTERISTIC DISTRIBUTION CURVE WITH 600 C-P. MAZDA LAMPS
For data see Pages 19 to 22.

FORM 6 NOVALUX BRACKET UNITS

For 250, 400, 600 and 1000 C-p. Mazda Series Lamps

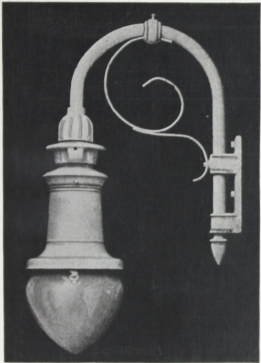


Fig. 26

BRACKET TYPE EQUIPPED WITH NO. 87 LIGHT CARRARA GLOBE
(BRACKET CAT. NO. 202231 NOT INCLUDED IN
CAT. NO.)

Distribution curve for this unit is the same as Fig. 17.

For data see Pages 23 to 27.

FORM 6 NOVALUX BRACKET UNITS (Cont'd)
For 250, 400, 600 and 1000 c-p. Mazda Series Lamps



Fig. 27

BRACKET TYPE EQUIPPED WITH NO. 87 LIGHT CARRARA GLOBE
AND REFLECTOR CAT. NO. 170556 (BRACKET CAT. NO.
202231 NOT INCLUDED IN CAT. NO.)

Distribution curve for this unit is the same as Fig. 19.
For data see Pages 23 to 27.

FORM 6 NOVALUX BRACKET UNITS (Cont'd)
For 250, 400, 600 and 1000 c-p. Mazda Series Lamps



Fig. 28

BRACKET TYPE EQUIPPED WITH CLOSED BASE PRISMATIC BOWL REFRACTOR
CAT. NO. 1340382 AND REFLECTOR CAT. NO. 170556 (BRACKET
CAT. NO. 202231 NOT INCLUDED IN CAT. NO.)

Distribution curve for this unit is the same as Fig. 21.
For data see Pages 23 to 27.

FORM 6 NOVALUX BRACKET UNITS

For 250, 400, 600 and 1000 C-p. Mazda Series Lamps



Fig. 29

BRACKET TYPE EQUIPPED WITH PRISMATIC BAND REFRACTOR CAT. NO. 174274, AND REFLECTOR CAT. NO. 170556 (BRACKET CAT. NO. 202231 NOT INCLUDED IN CAT. NO.)

Distribution curve for this unit is the same as Fig. 23.

For data see Pages 23 to 27.

FORM 6 NOVALUX BRACKET UNITS
For 250, 400, 600 and 1000 C-p. Mazda Series Lamps



Fig. 30

BRACKET TYPE EQUIPPED WITH NO. 105 RIPPLED GLOBE AND
PRISMATIC DOME REFRACTOR CAT. NO. 1340228 (BRACKET
CAT. NO. 202231 NOT INCLUDED IN CAT. NO.)

Distribution curve for this unit is the same as Fig. 25.
For data see Pages 23 to 27.

FORM 6 NOVALUX UNITS

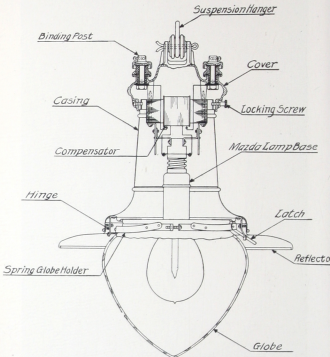


Fig. 31

CROSS-SECTION OF FORM 6 UNIT (PENDENT TYPE) EQUIPPED WITH REFLECTOR AND GLOBE

FORM 6 NOVALUX UNITS

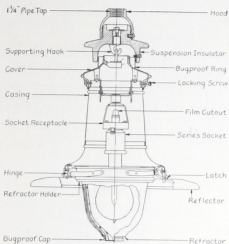


Fig. 32

CROSS-SECTION OF FORM 6 UNIT (BRACKET TYPE) EQUIPPED WITH REFLECTOR AND BOWL REFRACTOR

INSTRUCTIONS FOR INSTALLING BRACKET TYPE, FORM 6, NOVALUX FIXTURES

The hood should be removed from the porcelain suspension insulator of the fixture by backing off the four screws. The cap should then be screwed to the pipe of the bracket.

The four screws in the bottom flange of the porcelain suspension insulator should be backed off until the bugproof ring can be lifted. The fixture proper may then be lifted from the supporting hook within the suspension insulator.

The connection cables should be weatherproof finish G-E Spec. 3604 $\frac{1}{2}$, $\frac{1}{8}$ -in. rubber insulated, single conductors having 19 strands of 0.018 wire or the equivalent. These cables should be led from the bracket suspension hood or from a nearby cross arm and should be threaded loosely through the opening of the suspension insulator. From there they should pass down

FORM 6 NOVALUX UNITS

through the fixture to the terminals of the socket porcelain receptacle (if for straight series lamp) or down through the fixture around the outside of the auto-transformer to the proper taps on the winding (if for auto-transformer type high current lamp).

After the suspension insulator has been replaced with the hood and secured with four screws, the fixture can be hooked into the insulator. From the back of the bracket at the pole plate where connection to the line is made, the cables should be taken up to remove all slack.

The four screws in the suspension insulator should now be turned in but they should pass over the top edge of the bugproof ring so as to secure it in place and prevent the fixture from being lifted from its supporting hook.

After the casing, lamp and accessories have been properly assembled, the fixture is ready for service.

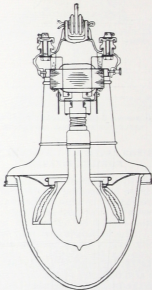


Fig. 33

CROSS-SECTION OF FORM 6 PENDENT TYPE UNIT EQUIPPED WITH
DOME REFRACTOR AND RIPPLED GLOBE

FORM 6 NOVALUX UNITS

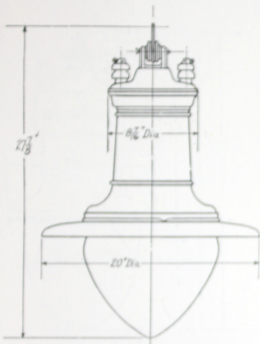


Fig. 34

FORM 6 PENDENT UNIT EQUIPPED WITH NO. 87 DIFFUSING GLOBE
AND REFRACTOR

Dimensions are for reference only and are not to be used for construction.

FORM 6 NOVALUX UNITS

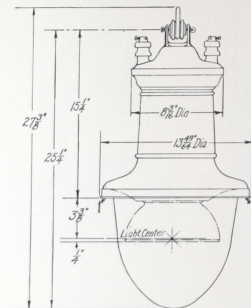


Fig. 35

FORM 6 PENDENT UNIT EQUIPPED WITH DOME REFRACTOR AND
RIPPLED GLOBE

Dimensions are for reference only and are not to be used
for construction.

FORM 6 NOVALUX UNITS

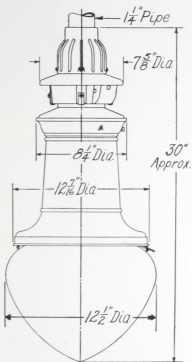


Fig. 36

FORM 6 PENDENT UNIT (BRACKET TYPE) EQUIPPED WITH NO. 87
DIFFUSING GLOBE

Dimensions are for reference only and are not to be used for construction.

FORM 11

NOVALUX PENDENT UNITS

FORM 11 NOVALUX PENDENT UNITS

GENERAL

The Form 11 Novalux pendent unit is similar to the Form 6 with the exception that the eye suspension is combined with the cover and no insulator is furnished. The lower part of the casing is smaller in diameter and the reflector is 18 inches in diameter instead of 20.

The casing that is used with the radial wave reflector is different from the one used with the reflector that is supplied with any of the diffusing globes or refractors. As a consequence, the radial wave reflector can be used only with casing designed especially for it.

The No. 99 stippled bowl and the No. 100 diffusing bowls have the same shape and dimensions as the bowl refractor and are held in place by the same refractor holder.

The distribution of light from the Form 11 unit is about the same as the Form 6.

FORM 11 NOVALUX PENDENT UNITS

Cat. No. (Unit Complete)	Pig. No.	Lamp Rating	Equipped with	Appra. Ship. Wt. in Lb.
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STRAIGHT SERIES TYPE

350, 400 and 500 C-P.

221294	43	6.6 or 7.5 amp.	No. 98 diffusing globe.....	30
221295	44		No. 98 diffusing globe and Cat. No. 1345792 reflector.....	35
221297	45		Cat. No. 1340382 closed base bowl refractor and Cat. No. 1345792 reflector.....	35
221299	46		Cat. No. 174274 band refractor and Cat. No. 1345792 reflector	35
221301	47		Cat. No. 1340228 dome refractor and Cat. No. 1345792 reflector.	35
221303	48		No. 100 diffusing bowl and Cat. No. 1345792 reflector.....	35
221305	49		No. 99 stippled bowl and Cat. No. 1345792 reflector.....	35
221306	50		Cat. No. 221200 radial wave reflector.....	35

STRAIGHT MULTIPLE

221307	43	300, 400 or 500 watt	No. 98 diffusing globe.....	30
221308	44		No. 98 diffusing globe and Cat. No. 1345792 reflector.....	35
221310	45		Cat. No. 1340382 closed base bowl refractor and Cat. No. 1345792 reflector.....	35
221312	46		Cat. No. 174274 band refractor and Cat. No. 1345792 reflector.	35
221314	47		Cat. No. 1340228 dome refractor and Cat. No. 1345792 reflector.	35
221316	48		No. 100 diffusing bowl and Cat. No. 1345792 reflector.....	35
221318	49		No. 99 stippled bowl and Cat. No. 1345792 reflector.....	35
221319	50		Cat. No. 221200 radial wave reflector.....	35
221322	50	750 or 1000 watt	Cat. No. 221200 radial wave reflector.....	35

* Catalog numbers do not include Mazda lamps.

FORM 11 NOVALUX PENDENT UNITS

Cat. No. (Unit Complete)	Fig. No.	Lamp Rating	Equipped with	Apprx. Ship. Wt. in Lb.
--------------------------------	-------------	----------------	---------------	----------------------------------

† IL TRANSFORMER TYPE

400, 600 and 1000 C-P.

221323	43		No. 98 diffusing globe.....	30
221324	44		No. 98 diffusing globe and Cat. No. 1345792 reflector.....	35
221326	45		Cat. No. 1340382 closed base bowl refractor and Cat. No. 1345792 reflector.....	35
221328	46	15	Cat. No. 174274 band refractor and Cat. No. 1345792 reflector.	35
221330	47	20	Cat. No. 1340228 dome refractor and Cat. No. 1345792 reflector.	35
221332	48	amp.	No. 100 diffusing bowl and Cat. No. 1345792 reflector.....	35
221334	49		No. 99 stippled bowl and Cat. No. 1345792 reflector.....	35
221335	50		Cat. No. 221200 radial wave reflector.....	35

* Catalog numbers do not include Mazda lamps.

† For use with, but not including a Type IL series transformer, aerial type which may be mounted on the cross-arm of the nearest pole.

FORM 11 NOVALUX PENDENT UNITS **FOR 400 C-P. MAZDA SERIES LAMPS**

* Cat. No. (Unit Com- plete)	Fig. No.	Lamp Rating in Amp.	Equipped with	Approx. Ship- Wt. in Lb.
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† PENDENT TYPE

(Complete with Auto-Transformer for 6.6 Ampere, 60-Cycle Series Circuits)

21336	43	15	No. 98 diffusing globe.....	40
21337	44	15	No. 98 diffusing globe and Cat. No. 1345792, 18-in. reflector.....	45
21339	45	15	Cat. No. 1340382 closed base bowl refractor and Cat. No. 1345792, 18-in. reflector.....	45
21341	46	15	Cat. No. 174274 band refractor and Cat. No. 1345792, 18-in. reflector..	45
21343	47	15	Cat. No. 1340228 dome refractor and Cat. No. 1345792, 18-in. reflector..	45
21345	48	15	No. 100 diffusing bowl and Cat. No. 1345792, 18-in. reflector.....	45
21347	49	15	No. 99 stippled bowl and Cat. No. 1345792, 18-in. reflector.....	45
21348	50	15	Cat. No. 221200 radial wave reflector	45

† PENDENT TYPE

(Complete with Auto-Transformer for 7.5 Ampere, 60-Cycle Series Circuits)

21375	43	15	No. 98 diffusing globe.....	40
21376	44	15	No. 98 diffusing globe and Cat. No. 1345792, 18-in. reflector.....	45
21378	45	15	Cat. No. 1340382 closed base bowl refractor and Cat. No. 1345792, 18-in. reflector.....	45
21380	46	15	Cat. No. 174274 band refractor and Cat. No. 1345792, 18-in. reflector..	45
21382	47	15	Cat. No. 1340228 dome refractor and Cat. No. 1345792, 18-in. reflector..	45
21384	48	15	No. 100 diffusing bowl and Cat. No. 1345792, 18-in. reflector.....	45
21386	49	15	No. 99 stippled bowl and Cat. No. 1345792, 18-in. reflector.....	45
21387	50	15	Cat. No. 221300 radial wave reflector	45

* Catalog numbers do not include Mazda lamps.

† Special auto-transformers can be furnished for any alternating current series circuit from 3 to 10 amperes, 25 to 133 cycles, at an increased price.

FORM 11 NOVALUX PENDENT UNITS **FOR 600 C-P. MAZDA SERIES LAMPS**

* Cat. No. (Unit Com- plete)	Fig. No.	Lamp Rating in Amp.	Equipped with	Approx. Shin. Wt. in Lb.
--	-------------	------------------------------	---------------	-----------------------------------

† PENDENT TYPE (WITH TAP FOR 400 C-P.)

(Complete with Auto-Transformer for 6.6-Ampere, 60-Cycle Series Circuits)

221349	43	20	No. 98 diffusing globe.....	40
221350	44	20	No. 98 diffusing globe and Cat. No. 1345792, 18-in. reflector.....	45
221352	45	20	Cat. No. 1340382 closed base bowl refractor and Cat. No. 1345792, 18-in. reflector.....	45
221354	46	20	Cat. No. 174274 band refractor and Cat. No. 1345792, 18-in. reflector..	45
221356	47	20	Cat. No. 1340228 dome refractor and Cat. No. 1345792, 18-in. reflector..	45
221358	48	20	No. 100 diffusing bowl and Cat. No. 1345792, 18-in. reflector.....	45
221360	49	20	No. 99 stippled bowl and Cat. No. 1345792, 18-in. reflector.....	45
221361	50	20	Cat. No. 221200 radial wave reflector	45

† PENDENT TYPE (WITH TAP FOR 400 C-P.)

(Complete with Auto-Transformer for 7.5-Ampere, 60-Cycle Series Circuits)

221388	43	20	No. 98 diffusing globe.....	40
221389	44	20	No. 98 diffusing globe and Cat. No. 1345792, 18-in. reflector.....	45
221391	45	20	Cat. No. 1340382 closed base bowl refractor and Cat. No. 1345792, 18-in. reflector.....	45
221393	46	20	Cat. No. 174274 band refractor and Cat. No. 1345792, 18-in. reflector..	45
221395	47	20	Cat. No. 1340228 dome refractor and Cat. No. 1345792, 18-in. reflector..	45
221397	48	20	No. 100 diffusing bowl and Cat. No. 1345792, 18-in. reflector.....	45
221399	49	20	No. 99 stippled bowl and Cat. No. 1345792 reflector.....	45
221400	50	20	Cat. No. 221200 radial wave reflector	45

* Catalog numbers do not include Mazda lamps.

* Special auto-transformers can be furnished for any alternating current series circuit from 3 to 10 amperes, 25 to 133 cycles, at an increased price.

FORM 11 NOVALUX PENDENT UNITS **FOR 1000 C-P. MAZDA SERIES LAMPS**

* Cat. No. (Unit Com- plete)	Fig. No.	Lamp Rating in Amp.	Equipped with	A S W in
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† PENDENT TYPE (WITH TAP FOR 600 C-P.)

(Complete with Auto-Transformer for 6.6-Ampere, 60-Cycle Series Circuit)

221362	43	20	No. 98 diffusing globe.....	4
221363	44	20	No. 98 diffusing globe and Cat. No. 1345792, 18-in. reflector.....	5
221365	45	20	Cat. No. 1340382 closed base bowl refractor and Cat. No. 1345792, 18-in. reflector.....	5
221367	46	20	Cat. No. 174274 band refractor and Cat. No. 1345792, 18-in. reflector..	5
221369	47	20	Cat. No. 1340228 dome refractor and Cat. No. 1345792, 18-in. reflector..	5
221371	48	20	No. 100 diffusing bowl and Cat. No. 1345792, 18-in. reflector.....	5
221373	49	20	No. 99 stippled bowl and Cat. No. 1345792, 18-in. reflector.....	5
221374	50	20	Cat. No. 221200 radial wave reflector	5

† PENDENT TYPE (WITH TAP FOR 600 C-P.)

(Complete with Auto-Transformer for 7.5-Ampere, 60-Cycle Series Circuit)

221401	43	20	No. 98 diffusing globe.....	4
221402	44	20	No. 98 diffusing globe and Cat. No. 1345792, 18-in. reflector.....	5
221404	45	20	Cat. No. 1340382 closed base bowl refractor and Cat. No. 1345792, 18-in. reflector.....	5
221406	46	20	Cat. No. 174274 band refractor and Cat. No. 1345792, 18-in. reflector..	5
221408	47	20	Cat. No. 1340228 dome refractor and Cat. No. 1345792, 18-in. reflector..	5
221410	48	20	No. 100 diffusing bowl and Cat. No. 1345792, 18-in. reflector.....	5
221412	49	20	No. 99 stippled bowl and Cat. No. 1345792, 18-in. reflector.....	5
221413	50	20	Cat. No. 221200 radial wave reflector	5

* Catalog numbers do not include Mazda lamps.

† Special auto-transformers can be furnished for any alternating current circuit, from 3 to 10 amperes, 25 to 133 cycles, at an increased price.

FORM 11 NOVALUX PENDENT UNITS



Fig. 37

18-IN. REFLECTOR, CAT. NO. 1345792



Fig. 38

20-IN. RADIAL WAVE REFLECTOR, CAT. NO. 221200



Fig. 39

CAT. NO. 174274
BAND REFRACTOR



Fig. 40

CAT. NO. 1340228
DOME REFRACTOR



Fig. 41

NO. 98 DIFFUSING GLOBE



Fig. 42

CAT. NO. 1340382
CLOSED BASE BOWL
REFRACTOR

FORM 11 NOVALUX PENDENT UNITS



Fig. 43

UNIT EQUIPPED WITH NO. 98 DIFFUSING GLOBE

For prices see Pages 49 to 53.

For dimensions, see Pages 63 to 66.

Distribution curve is similar to Fig. 17.

FORM 11 NOVALUX PENDENT UNITS

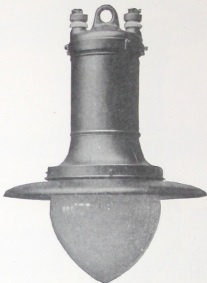


Fig. 44

UNIT EQUIPPED WITH NO. 98 DIFFUSING GLOBE
AND 18-IN. REFLECTOR, CAT. NO. 1345792

For prices, see Pages 49 to 53.

For dimensions, see Pages 63 to 66.

Distribution curve is similar to Fig. 19.

FORM 11 NOVALUX PENDENT UNITS

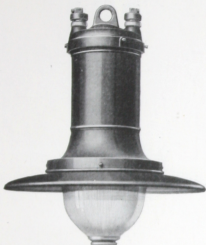


Fig. 45

UNIT EQUIPPED WITH CAT. NO. 1340382 CLOSED BASE
BOWL REFRACTOR AND 18-IN. REFLECTOR,
CAT. NO. 1345792

For prices, see Pages 49 to 53.

For dimensions, see Pages 63 to 66.

Distribution curve is similar to Fig. 21.

FORM 11 NOVALUX PENDENT UNITS

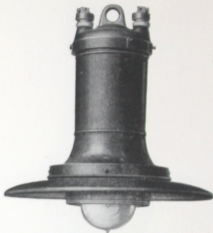


FIG. 46

UNIT EQUIPPED WITH CAT. NO. 174274
BAND REFRACTOR AND 18-IN.
REFLECTOR, CAT. NO. 1345792

For prices, see Pages 49 to 53.

For dimensions, see Pages 63 to 66.

Distribution curve is similar to Fig. 23.

FORM 11 NOVALUX PENDENT UNITS

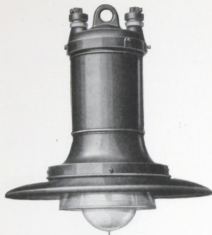


Fig. 47

UNIT EQUIPPED WITH CAT. NO. 1340228
DOME REFRACTOR AND 18-IN.
REFLECTOR, CAT. NO. 1345792

For prices, see Pages 49 to 53.

For dimensions, see Pages 63 to 66.

FORM 11 NOVALUX PENDENT UNITS

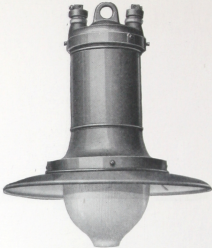


Fig. 48

UNIT EQUIPPED WITH NO. 100 DIFFUSING
BOWL AND 18-IN. REFLECTOR,
CAT. NO. 1345792

For prices, see Pages 49 to 53.

For dimensions, see Pages 63 to 66.

FORM 11 NOVALUX PENDENT UNITS

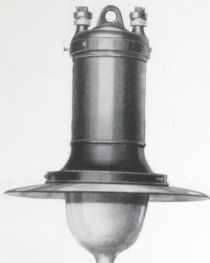


Fig. 49

UNIT EQUIPPED WITH NO. 99 STIPPLED
BOWL AND 18-IN. REFLECTOR,
CAT. NO. 1345792

For prices, see Pages 49 to 53.

For dimensions, see Pages 63 to 66.

FORM 11 NOVALUX PENDENT UNITS

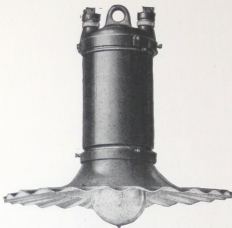
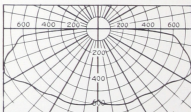


Fig. 50

UNIT EQUIPPED WITH CYLINDRICAL CASING
AND 20-IN. RADIAL WAVE REFLECTOR,
CAT. NO. 221200

For prices, see Pages 49 to 53.

For dimensions, see Pages 63 to 66.



CHARACTERISTIC DISTRIBUTION OF FORM 11 UNIT WITH
RADIAL WAVE REFLECTOR, CAT. NO. 221200.

FORM 11 NOVALUX PENDENT UNITS

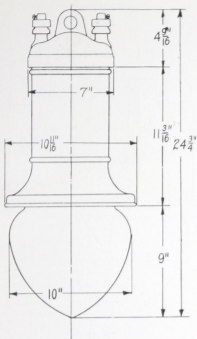


Fig. 51

DIMENSIONS OF UNIT EQUIPPED WITH NO. 98
DIFFUSING GLOBE

Dimensions are for reference only and are not to be used for construction.

FORM 11 NOVALUX PENDENT UNITS

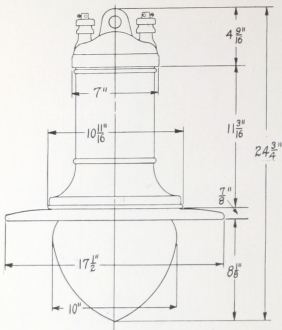


Fig. 52

DIMENSIONS OF UNIT EQUIPPED WITH NO. 98
DIFFUSING GLOBE AND 18-IN. REFLECTOR,
CAT. NO. 1345792

Dimensions are for reference only and are not to be used for construction.

FORM 11 NOVALUX PENDENT UNITS

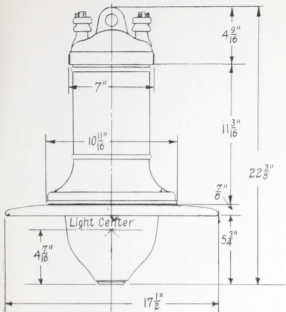


Fig. 53

DIMENSIONS OF UNIT EQUIPPED WITH CAT. NO. 1340382 CLOSED BASE
BOWL REFRACTOR AND 18-IN. REFLECTOR,
CAT. NO. 1345792

Dimensions are for reference only and are not to be used
for construction.

FORM 11 NOVALUX PENDENT UNITS

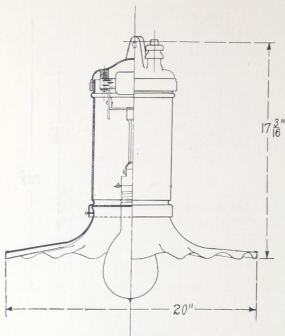


Fig. 54

DIMENSIONS OF UNIT EQUIPPED WITH CYLINDRICAL
CASING AND 20-IN. RADIAL WAVE REFLECTOR,
CAT. NO. 221200

Dimensions are for reference only and are not to be used
for construction.

